N° 16,903 A.D. 1902

Date of Application, 30th July, 1902
Complete Specification Left, 30th Apr., 1903—Accepted, 2nd July, 1903

PROVISIONAL SPECIFICATION.

A Thermal Chamber Container for the Semen of Animals

Charles Henry Huish 12 Red Lion Square London W.C. Surgical Instrument Maker do hereby declare the nature of this invention to be as follows:—

A hollow case of suitable metal cylindrical in shape packed with alternate layers of Gamgee tissue and thick felt or other heat conducting and non-conducting material the hollow part lined with felt to contain a stoppered bottle and fitted with a maximum and minimum thermometer This case called No. 1 is to be surrounded by a water-jacket in which there is a hole fitted with thumbscrew of suitable dimensions for filling with boiling water This jacket is called No 2 Nos. 1 and 2 are both fitted with a hollow plug cover packed and lined with non-conducting material No 2 is in turn surrounded by No 3 another zinc or other metal cylinder which stands up about $1^{1}/_{2}$ inches above the top of the cover of No 1 and 2 No 3 is packed with cowhair felt or other heat non-conducting material to prevent the lowering of the temperature of the water contained in No 2 normally and to maintain a temperature in No 1 or inner chamber for several hours that shall not fall below 95°. A hollow plug cover packed with non-conducting material now fits flush over the whole of the three cases forming one thermal chamber which is in turn placed in a strong iron-bound wooden case fitted with a yale spring or other lock The object of this thermal chamber and container is to preserve alive and vigorous the zoosperms in animal semen for a sufficient number of hours to enable it to be transmitted from one end of the country to the other and to the Continent and to be subsequently utilised for the production of progeny from mares cows bitches and other animals and thus avoid the expense and risk of sending females to the distant stud The semen from the sire is obtained by placing upon the penis of the male an envelope made of fine silk coated with rubber and retaining it in position by means of rubber bands The male thus equiped copulates with a female in œstrum in the usual way but instead of depositing the semen in the vagina it is emitted into the envelope—Upon dismounting this envelope will be removed and the semen transferred to the bottle in No 1 chamber and No 2 having been previously filled with boiling water it is together with No 1 covered with the non-conducting covers the outer case locked and immediately dispatched to the owner of the female who is desirous of obtaining progeny from the male without the risk trouble and expense of sending her to the stud—Upon the arrival of the thermal chamber the female being in œstrum will be artificially inseminated by means of my Patent Inseminator 15362—of 1898

Dated this 21st day of July 1902.

CHARLES HENRY HUISH.

COMPLETE SPECIFICATION.

A Thermal Chamber Container for the Semen of Animals.

I, Charles Henry Huish, of 12 Red Lion Square, in the County of London, Surgical Instrument Maker, do hereby declare the nature of this invention, and

[*Price 8d.*]

in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

My invention relates to a thermal chamber container for the semen of animals.

This apparatus is for artificial insemination and for carrying semen from stallions, bulls, and dogs, and to keep alive the zoo-sperms therein whilst travelling long distances, to save the trouble, risk, and expense of sending valuable females long journies for service.

And in order that my invention may be thoroughly understood, I now proceed to describe the accompanying drawing thereof, reference being had to letters and figures marked thereon.

Fig. 1, is a plan of the cover *d*.

Fig. 2, is a side elevation of the box c^1 open to show the zinc outer receptacle 3.

Fig. 3, is half in elevation and a half in section of the apparatus.

Fig. 4, is a plan of the apparatus with the cover *d* removed.

The apparatus is constructed with a small zinc receptacle 1 lined with felt *a* and cover *c* for holding a stoppered bottle to contain the semen obtained from a sire. In the case of cows and bitches the semen may be collected from the vagina after copulation.

The mode of working the apparatus is as follows:—

The middle zinc receptacle 2 is filled with four pints of cold water and five and a half pints of boiling water and allowed to remain with the cover of the wooden case c^1 and the plug or cover *c* of the bottle receptacle 1 both open. The semen in the bottle is carefully stoppered, it is then placed in the receptacle 2, (filled with water from an opening having a screwed plug *e*,) and the cover *c* of the receptacle 1 carefully placed in position; the covers *b* and *c* are now finally placed over the receptacles 2 and 3, the whole being enclosed in a wood box c^1 locked by a spring lock the key of which is held by the owner of the female to be artificially inseminated when the apparatus arrives at its destination. The apparatus is dispatched to the owner of the female animal and when received by him the semen contained in the bottle is sucked up by an inseminator and placed in the uterus or womb of the mare it is desired to inseminate.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. A thermal chamber container for the semen of animals, constructed and arranged as fully described in the above specification and illustrated in the accompanying drawing.
2. In a thermal chamber, the combination and arrangement of the zinc receptacles fitting one in the other, and the covers *b*, *c*, and *d*, fitted into a wood lock up case, substantially as herein described and according to the accompanying drawing.
3. A thermal chamber or apparatus, constructed as above described in this specification for the purpose specified.

Dated this 30th day of April, 1903.

J. P. BAYLY,
18 Fulham Place, London, W.
Agent for the Applicant.

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HUISH'S COMPLETE SPECIFICATION.

(1 SHEET)

Fig. 1.

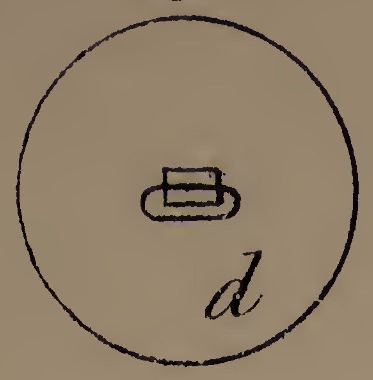


Fig. 2.

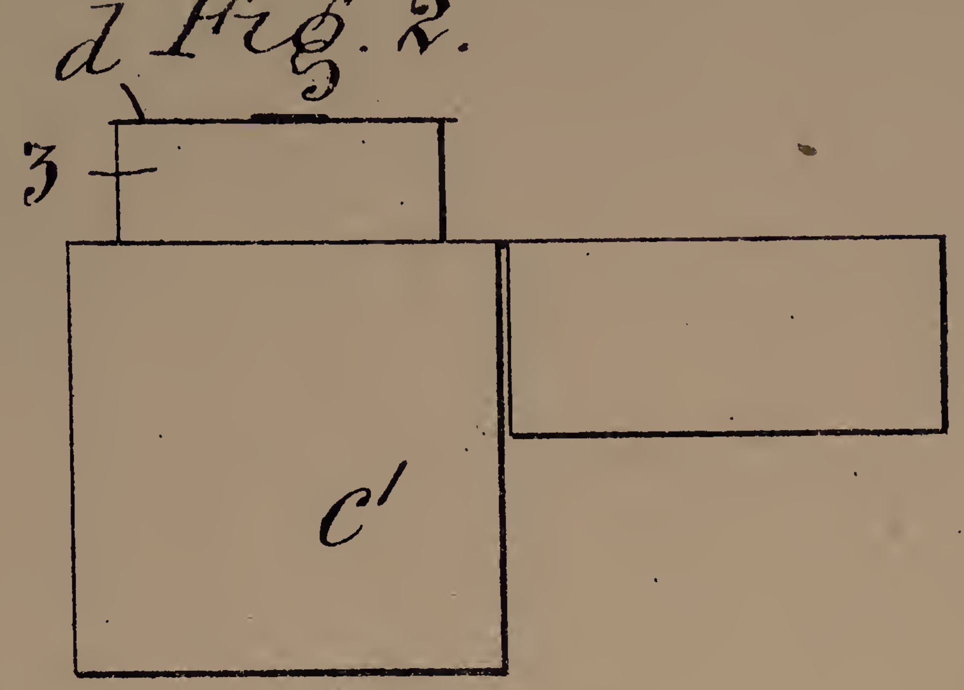


Fig. 3.

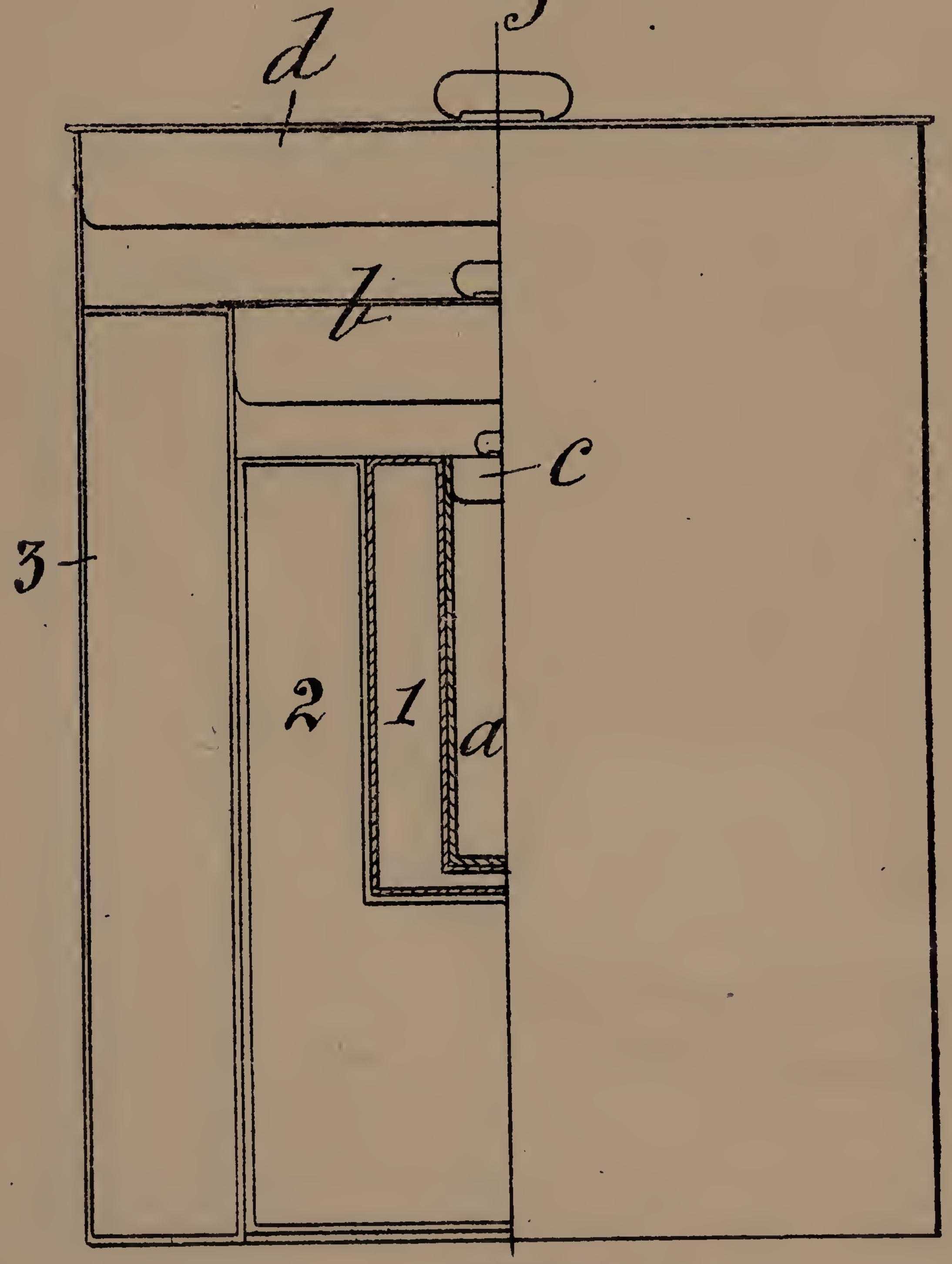
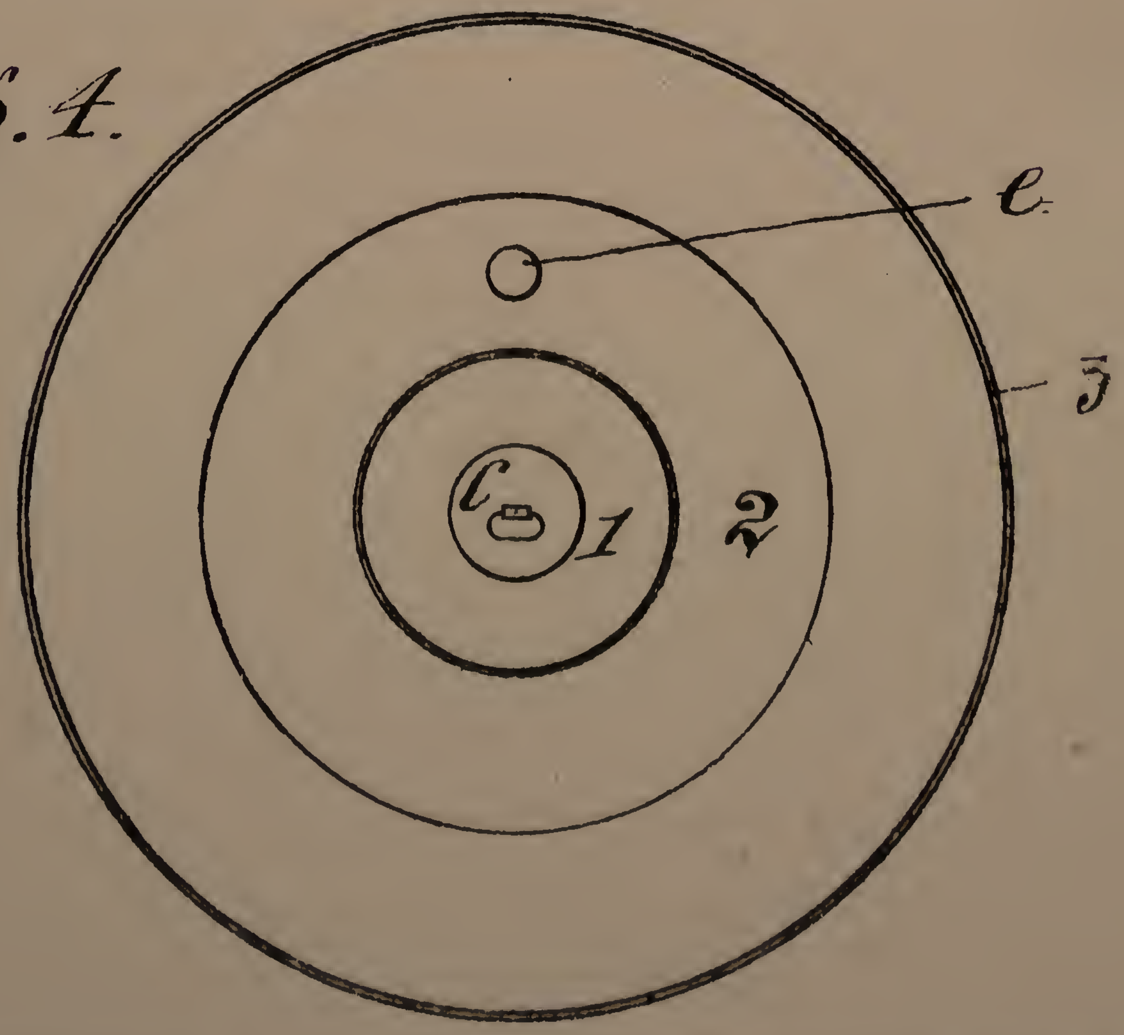


Fig. 4.



[This Drawing is a reproduction of the Original on a reduced scale.]

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